

Coast Guard, DOT

§56.01-2

§56.01-2 Incorporation by reference.

(a) Certain standards and specifications are incorporated by reference into this part with the approval of the Director of the Federal Register in accordance with 5 U.S.C. 552(a). To enforce any edition other than the one listed in paragraph (b) of this section, notice of the change must be published in the FEDERAL REGISTER and the material made available to the public. All approved material is on file at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC, and is available from the sources indicated in paragraph (b).

(b) The standards and specifications approved for incorporation by reference in this part, and the sections affected are:

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)	
<i>11 West 42nd Street, New York, NY 10036</i>	
ANSI B1.1-82 Unified Inch Screw Threads (UN and UNR Thread Form)	56.60-1; 56.25-20
ANSI B1.20.1-83 Pipe Threads, General Purpose (Inch)	56.60-1
ANSI B1.20.3-76 (reaffirmed 1982) Dryseal Pipe Threads (Inch)	56.60-1
ANSI B16.1-75 Cast Iron Flanges and Flanged Fittings, Class 25, 125, 250 and 800	56.60-1; 56.60-10
ANSI B16.3-85 Malleable Iron Threaded Fittings, Classes 150 and 300	56.60-1
ANSI B16.4-85 Cast Iron Threaded Fittings, Classes 125 and 250	56.60-1
ANSI B16.5-81 Pipe Flanges and Flanged Fittings	56.25-20; 56.30-10; 56.60-1
ANSI B16.9-86 Factory-Made Wrought Steel Buttwelding Fittings	56.60-1
ANSI B16.10-86 Face-to-Face and End-to-End Dimensions of Ferrous Valves	56.60-1
ANSI B16.11-80 Forged Steel Fittings, Socket-Welding and Threaded	56.30-5; 56.60-1
ANSI B16.14-83 Ferrous Pipe Plugs, Bushings, and Locknuts with Pipe Threads	56.60-1
ANSI B16.15-85 Cast Bronze Threaded Fittings, Classes 125 and 250	56.60-1
ANSI B16.18-84 Cast Copper Alloy Solder Joint Pressure Fittings	56.60-1
ANSI B16.20-73 Ring-Joint Gaskets and Grooves for Steel Pipe Flantion VIII, Division 1, Pressure Vessels, 1986 with addenda ...	56.15-1; 56.15-5; 56.15-10; 56.25-5; 56.30-10; 56.30-30; 56.60-15; 56.60-1; 56.95-10
Section IX, Welding and Brazing	

Qualifications, 1986 with addenda	56.70-5; 56.70-20; 56.75-20; 56.0-1
ANSI B16.24-79 Bronze Pipe Flanges and Flanged Fittings, Class 150 and 300	56.60-1
ANSI B16.25-86 Buttwelding Ends	56.60-1; 56.30-5; 56.70-10
ANSI B16.28-86 Wrought Steel Buttwelding Short Radius Elbows and Returns	56.60-1
ANSI B16.29-86 Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings—DWV	56.60-1
ANSI B16.34-88 Valves-Flanged, Threaded and Welding End	56.20-1; 56.60-1
ANSI B16.42-87 Ductile Iron Pipe Flanges and Flanged Fittings, Classes 150 and 300	56.60-1
ANSI B18.2.1-81 Square and Hex Bolts and Screws, Inch Series	56.25-20; 56.60-1
ANSI B18.2.2-87 Square and Hex Nuts	56.25-20; 56.60-1
ANSI B31.1-86 Power Piping	56.01-5
ANSI B36.10M-85 Welded and Seamless Wrought Steel Pipe	56.07-5; 56.30-20; 56.60-1
ANSI B36.19M-85 Stainless Steel Pipe	56.07-5; 56.60-1

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) INTERNATIONAL

Three Park Avenue, New York, NY 10016—5990

Boiler and Pressure Vessel Code:

Section I, Power Boilers, 1986 with addenda	56.15-5; 56.15-10; 56.60-1; 56.60-1; 56.70-15; 56.95-10
Section VIII, Division 1, Pressure Vessels, 1986 with addenda ...	56.15-1; 56.15-5; 56.15-10; 56.25-5; 56.30-10; 56.30-30; 56.60-15; 56.60-1; 56.95-10
Section IX, Welding and Brazing Qualifications, 1986 with addenda	56.70-5; 56.70-20; 56.75-20; 56.85-10

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM International Headquarters, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959

ASTM A 36-84a Structural Steel	56.30-10
ASTM A 47-84 Malleable Iron Castings	56.60-1
ASTM A 53-84a Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless	56.10-5; 56.60-1
ASTM A 106-84a Seamless Carbon Steel Pipe for High-Temperature Service	56.60-1
ASTM A 126-84 Gray Iron Castings for Valves, Flanges, and Pipe Fittings	56.60-1
ASTM A 134-80 Pipe, Steel, Electric-Fusion (ARC)-Welded (Sizes NPS	

§ 56.01-2

46 CFR Ch. I (10-1-99 Edition)

16 and over.)	
ASTM A 135-84 Electric-Resistance-Welded Steel Pipe.....	56.60-1
ASTM A 139-84 Electric-Fusion (Arc)-Welded Steel Pipe (Sizes 4 in. and over)	56.60-1
ASTM A 178-84a Electric-Resistance-Welded Carbon Steel Boiler Tubes	56.60-1
ASTM A 179-84 Seamless Cold-Drawn Low-Carbon Steel Heat-Exchanger and Condenser Tubes	56.60-1
ASTM A 182-84c Forged or Rolled Alloy-Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service	56.50-105
ASTM A 192-84a Seamless Carbon Steel Boiler Tubes for High-Pressure Service	56.60-1
ASTM A 194-84a Carbon and Alloy Steel Nuts for Bolts for High-Pressure and High-Temperature Service	56.50-105
ASTM A 197-79 Cupola Malleable Iron	56.60-1
ASTM A 199-84 Seamless Cold-Drawn Intermediate Alloy-Steel Heat-Exchanger and Condenser Tubes.....	56.60-1
ASTM A 210-84a Seamless Medium-Carbon Steel Boiler and Superheater Tubes.....	56.60-1
ASTM A 213-84b Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes	56.60-1
ASTM A 214-84a Electric-Resistance-Welded Carbon Steel Heat-Exchanger and Condenser Tubes.....	56.60-1
ASTM A 226-84a Electric-Resistance-Welded Carbon Steel Boiler and Superheater Tubes for High-Pressure Service	56.60-1
ASTM A 234-84a Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and Elevated Temperatures	56.60-1
ASTM A 249-84b Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser Tubes	56.60-1
ASTM A 268-84a Seamless and Welded Ferritic Stainless Steel Tubing for General Service	56.60-1
ASTM A 276-84a Stainless and Heat-Resisting Steel Bars and Shapes	56.60-2
ASTM A 307-84 Carbon Steel Externally Threaded Standard Fasteners	56.25-20
ASTM A 312-84c Seamless and Welded Austenitic Stainless Steel Pipe	56.50-105; 56.60-1
ASTM A 320-84a Alloy-Steel Bolting Materials for Low-Temperature Service.....	56.50-105
ASTM A 333-84b Seamless and Welded Steel Pipe for Low-Temperature Service	56.50-105; 56.60-1
ASTM A 334-84b Seamless and Welded Carbon and Alloy-Steel Tubes for Low Temperature Service	56.50-105; 56.60-1
ASTM A 335-84a Seamless Ferritic Alloy Steel Pipe for High-Temperature Service	56.60-1
ASTM A 350-84a Forgings, Carbon and Low-Alloy Steel, Requiring Notch Toughness Testing for Piping Components	56.50-105
ASTM A 351-84a Steel Castings, Austenitic, for High-Temperature Service.....	56.50-105
ASTM A 352-84a Steel Castings, Ferritic and Martensitic, for Pressure-Containing Parts Suitable for Low-Temperature Service	56.50-105
ASTM A 358-84b Electric-Fusion-Welded Austenitic Chromium-Nickel Alloy Steel Pipe for High-Temperature Service	56.60-1
ASTM A 369-84 Carbon and Ferric Alloy Steel Forged and Bored Pipe for High Temperature Service	56.60-1
ASTM A 376-84 Seamless Austenitic Steel Pipe for High-Temperature Central-Station Service ...	56.07-10; 56.60-1; 56.60-2
ASTM A 395-80 Ferritic Ductile Iron Pressure-Retaining Castings for Use at Elevated Temperatures	56.60-1; 56.50-60; 56.60-15
ASTM A 403-84a Wrought Austenitic Stainless Steel Piping Fittings	56.60-1
ASTM A 420-84 Piping Fittings of Wrought Carbon Steel and Alloy Steel for Low-Temperature Service	56.50-105; 56.60-1
ASTM A 430-84a Austenitic Steel, Forged and Bored Pipe for High-Temperature Service	56.60-1
ASTM A 520-72 Supplementary Requirements for Seamless and Electrical-Resistance-Welded Carbon Steel Tubular Products for High-Temperature Service Conforming to ISO Recommendations for Boiler Construction.....	56.60-1
ASTM A 522-81 Forged or Rolled 8 and 9% Nickel Alloy Steel Flanges, Fittings, Valves, and Parts for Low-Temperature Service	56.50-105
ASTM A 575-81 Steel Bars, Carbon, Merchant Quality, M-Grades	56.60-2
ASTM A 576-81 Steel Bars, Carbon, Hot-Wrought, Special Quality	56.60-2
ASTM B 16-85 Free-Cutting Brass Rod, Bar, and Screw Machines.....	56.60-2
ASTM B 21-83b Naval Brass Rod, Bar, and Shapes.....	56.60-2
ASTM B 26-84 Aluminum-Alloy Sand Castings.....	56.60-2
ASTM B 42-84 Seamless Copper Pipe, Standard Sizes	56.60-1
ASTM B 43-84 Seamless Red Brass	

Coast Guard, DOT

§56.01-2

Pipe, Standard Sizes.....	56.60-1	(PVC) Plastic Pipe Fittings, Schedule 40.....	56.60-25
ASTM B 68-83 Seamless Copper Tube, Bright Annealed.....	56.60-1	ASTM D 2467-76a Socket-Type Poly(Vinyl Chloride)(PVC) Plastic Pipe Fittings, Schedule 80.....	56.60-25
ASTM B 75-84 Seamless Copper Tube.....	56.60-1	ASTM D 2665-82 Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings.....	56.60-25
ASTM B 85-84 Aluminum-Alloy Die Castings.....	56.60-2	ASTM D 2863-77 Measuring the Minimum Oxygen Concentration to Support Candle-Like Combustion of Plastics (Oxygen Index).....	56.60-25
ASTM B 88-83a Seamless Copper Water Tube.....	56.60-1	ASTM E 23-82 Notched Bar Impact Testing of Metallic Materials.....	56.50-105
ASTM B 96-84a Copper Silicon Alloy Plate and Sheet, Strip, and Rolled Bar for General Purposes and Pressure Vessels.....	56.60-2	ASTM F 682-82a Wrought Carbon Steel Sleeve-Type Pipe Couplings.....	56.60-1
ASTM B 111-85 Copper and Copper-Alloy Seamless Condenser Tubes and Ferrule Stock.....	56.60-1	ASTM F 1006-86 Entrainment Separators for Use in Marine Piping Applications.....	56.60-1
ASTM B 124-84 Copper and Copper-Alloy Forging Rod, Bar, and Shapes.....	56.60-2	ASTM F 1007-86 Pipe-Line Expansion Joints of the Packed Slip Type for Marine Application.....	56.60-1
ASTM B 161-81 Nickel Seamless Pipe and Tube.....	56.60-1	ASTM F 1020-86 Line-Blind Valves for Marine Applications.....	56.60-1
ASTM B 165-81 Nickel-Copper Alloy (UNS N04400) Seamless Pipe and Tube.....	56.60-1	ASTM F 1120-87 Circular Metallic Bellows Type Expansion Joints for Use in Marine Piping.....	56.60-1
ASTM B 167-80 Nickel-Chromium-Iron Alloy (UNS N06600-N06690) Seamless Pipe and Tube.....	56.60-1	ASTM F 1123-87 Non-Metallic Expansion Joints for Use in Marine Piping Applications.....	56.60-1
ASTM B 171-85a Copper-Alloy Condenser Tube Plates.....	56.60-2	ASTM F 1139-88 Steam Traps and Drains.....	56.60-1
ASTM B 210-82a Aluminum-Alloy Drawn Seamless Tubes.....	56.60-1	ASTM F 1172-88 Fuel Oil Meters of the Volumetric Positive Displacement Type.....	56.60-1
ASTM B 234-85 Aluminum-Alloy Drawn Seamless Tubes for Condensers and Heat Exchangers.....	56.60-1	ASTM F 1173-95 Epoxy Resin Fiberglass Pipe and Fittings to be Used for Marine Applications.....	56.60-1; 56.60-25
ASTM B 241-83a Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube.....	56.60-1	ASTM F 1199-88 Cast and Welded Pipe Line Strainers.....	56.60-1
ASTM B 280-83 Seamless Copper Tube for Air Conditioning and Refrigeration Field Service.....	56.60-1	ASTM F 1200-88 Fabricated (Welded) Pipe Line Strainers.....	56.60-1
ASTM B 283-83b Copper and Copper-Alloy Die Forgings (Hot-Pressed).....	56.60-2	ASTM F 1201-88 Fluid Conditioner Fittings in Piping Applications Above 0 °F.....	56.60-1
ASTM B 315-85 Seamless Copper-Alloy Pipe and Tube.....	56.60-1	ASTM F 1387-93 Standard Specification for Performance of Mechanically Attached Fittings, including supplementary requirements and annex.....	56.30-25
ASTM B 361-81 Factory-Made Wrought Aluminum and Aluminum-Alloy Welding Fittings.....	56.60-1	ASTM F 1476-93 Standard Specification for Performance of Gasketed Mechanical Couplings for Use in Piping Applications, including annex.....	56-30-35
ASTM B 858M-95 Standard Test Method for Determination of Susceptibility to Stress Corrosion Cracking in Copper Alloys Using an Ammonia Vapor Test.....	56.60-2(a)	ASTM F 1548-94 Standard specification for Performance of Fittings for Use with Gasketed Mechanical Couplings for Use in Piping Applications.....	56.30-35
ASTM D 635-81 Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position.....	56.60-25		
ASTM D 1785-83 Poly(Vinyl Chloride)(PVC) Plastic Pipe, Schedules 40, 80, and 120.....	56.60-25		
ASTM D 2241-84 Poly(Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR-Series).....	56.60-25		
ASTM D 2464-76 Threaded Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80.....	56.60-25		
ASTM D 2466-78 Poly(Vinyl Chloride)			

EXPANSION JOINT MANUFACTURERS
ASSOCIATION INC. (EJMA)

25 North Broadway, Tarrytown, NY 10591

Standards of the Expansion Joint
Manufacturers Association, 1980.....56.60-1

§ 56.01-3

INTERNATIONAL MARITIME ORGANIZATION
(IMO), PUBLICATIONS SECTION,

4 Albert Embankment, London, SE1 7SR United
Kingdom

Resolution A.753(18) Guidelines for the
Application of Plastic Pipes on
Ships56.60-25

FLUID CONTROLS INSTITUTE INC. (FCI)

31 South Street, Suite 303, Morristown, NJ 07960

FCI 69-1 Pressure Rating Standard for
Steam Traps56.60-1

MANUFACTURERS STANDARDIZATION SOCIETY
OF THE VALVE AND FITTINGS INDUSTRY, INC.
(MSS)

127 Park Street NE, Vienna, VA 22180

SP-6-85 Standard Finishes for Contact
Faces of Pipe Flanges and Con-
necting-End Flanges of Valves and
Fittings56.25-10; 56.60-1

SP-9-87 Spot Facing for Bronze, Iron
and Steel Flanges56.60-1

SP-25-88 Standard Marking System
for Valves, Fittings, Flanges and
Unions56.15-1; 56.20-5; 56.60-1

SP-44-85 Steel Pipe Line Flanges56.60-1

SP-45-87 Bypass and Drain Connection
Standard56.20-20; 56.60-1

SP-51-86 Class 150LW Corrosion Re-
sistant Cast Flanges and Flanged
Fittings56.60-1

SP-53-85 Quality Standard for Steel
Castings and Forgings for Valves,
Flanges and Fittings and Other
Piping Components—Magnetic
Particle Examination Method56.60-1

SP-55-85 Quality Standard for Steel
Castings for Valves, Flanges and
Fittings and Other Piping Compo-
nents—Visual Method56.60-1

SP-58-83 Pipe Hangers and Supports—
Materials, Design and Manufac-
ture56.60-1

SP-61-85 Pressure Testing of Steel
Valves56.60-1

SP-67-83 Butterfly Valves56.60-1

SP-69-83 Pipe Hangers and Supports—
Selection and Application56.60-1

SP-72-87 Ball Valves with Flanged or
Butt-Welding Ends for General
Service56.60-1

SP-73-86 Brazing Joints for Wrought
and Cast Copper Alloy Solder
Joint Pressure Fittings56.60-1

SP-83-87 Steel Pipe Unions, Socket-
Welding and Threaded56.60-1

SOCIETY OF AUTOMOTIVE ENGINEERS (SAE)

400 Commonwealth Drive, Warrendale, Pa 15096

J1475-84 Hydraulic Hose Fittings for
Marine Applications56.60-25

J1942-89 Hose and Hose Assemblies for

46 CFR Ch. I (10-1-99 Edition)

Marine Applications56.60-25

[CGD 77-140, 54 FR 40599, Oct. 2, 1989; 55 FR 39968, Oct. 1, 1990, as amended by CGD 88-032, 56 FR 35822, July 29, 1991; CGD 95-012, 60 FR 48049, Sept. 18, 1995; CGD 95-027, 61 FR 26000, May 23, 1996; CGD 96-041, 61 FR 50728, Sept. 27, 1996; CGD 97-057, 62 FR 51044, Sept. 30, 1997; CGD 95-028, 62 FR 51200, Sept. 30, 1997; USCG-1999-6216, 64 FR 53224, Oct. 1, 1999]

§ 56.01-3 Power boiler external piping (Replaces 100.1.1, 100.1.2, 111.6, 122.1, 132 and 133).

(a) Power boiler external piping and components must meet the require-
ments of this part and §§ 52.01-105, 52.01-
110, 52.01-115, and 52.01-120 of this chap-
ter.

(b) Specific requirements for power
boiler external piping and appur-
tenances, as defined in §§ 100.1.1 and
100.1.2, appearing in the various para-
graphs of ANSI B31.1, are not adopted
unless specifically indicated elsewhere
in this part.

[CGD 77-140, 54 FR 40602, Oct. 2, 1989; 55 FR 39968, Oct. 1, 1990]

§ 56.01-5 Adoption of ANSI (American National Standards Institute) Code B31.1 for pressure and power pip- ing, and other standards.

(a) Piping systems for ships and
barges shall be designed, constructed,
and inspected in accordance with B31.1,
the "Code for Pressure Piping, Power
Piping," of the ANSI (American Na-
tional Standards Institute), as limited,
modified, or replaced by specific re-
quirements in this part. The provisions
in the appendices to ANSI-B31.1 are
adopted and shall be followed when the
requirements in ANSI-B31.1 or the reg-
ulations in this part make them man-
datory. For general information Table
56.01-5(a) lists the various paragraphs,
etc., in ANSI-B31.1 which are limited,
modified, replaced, or reproduced by
regulations in this part.

TABLE 56.01-5(A)—LIMITATIONS AND MODIFICA-
TIONS IN THE ADOPTION OF ANSI-B31.1
CODE FOR PRESSURE AND POWER PIPING

Section or paragraph in ANSI- B31.1, and disposition	Unit in this part
100.1 replaced by	56.01-1.
100.2 modified by	56.07-5.
101 through 104.7 modified by	56.07-10.
101.2 modified by	56.07-10(a), (b).
101.5 replaced by	56.07-10(c).